

# Color Change Thermometry

# THERMACOLOR THERMOMETERS

## Continuous Temperature monitoring

A comprehensive system of thermometers based on proprietary formulations of liquid crystals that change color at a designated temperature. Current temperature is displayed as a Green event.

- ◆ Instant Response - Continuous Readout
- ◆ No Batteries or Glass - Non Toxic
- ◆ Temperature Range - -22-248°F (-30-120°C)
- ◆ Accurate +/- 1°C
- ◆ Self Adhesive
- ◆ Custom Applications
- ◆ Cost Effective

88	31
86	30
84	29
82	28
80	27
78	26
76	24
74	23
72	22
70	21
68	20
66	19
64	18
62	17
60	16
58	14

16 LEVEL 8 LEVEL

28	82
26	78
24	75

9 LEVEL

### 16 LEVEL THERMOMETER

1	°F	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56
	°C	-3	-2	-1	0	1	2	3	4	6	7	8	9	10	11	12	13
2	°F	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88
	°C	14	16	17	18	19	20	21	22	23	24	26	27	28	29	30	31
3	°F	90	92	94	96	98	100	102	104	106	108	110	112	114	116	118	120
	°C	32	33	34	35	37	38	39	40	41	42	43	44	45	47	48	49
4	°F	122	124	126	128	130	132	134	136	138	140	142	144	146	148	150	152
	°C	50	51	52	53	54	55	57	58	59	60	61	62	63	64	65	66
5	°F	154	156	158	160	162	164	166	168	170	172	174	176	178	180	182	184
	°C	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83

**Specifications:**  
Size: 5" x 0.5" (127mm x 12.5mm)  
Type: Vertical, self adhesive.  
Scale: °F and °C

### 8 LEVEL THERMOMETER

1	°F	26	28	30	32	34	36	38	40
	°C	-3	-2	-1	0	1	2	3	4
2	°F	42	44	46	48	50	52	54	56
	°C	6	7	8	9	10	11	12	13
3	°F	58	60	62	64	66	68	70	72
	°C	14	16	17	18	19	20	21	22
4	°F	74	76	78	80	82	84	86	88
	°C	23	24	26	27	28	29	30	31
5	°F	90	92	94	96	98	100	102	104
	°C	32	33	34	35	37	38	39	40
6	°F	106	108	110	112	114	116	118	120
	°C	41	42	43	44	45	47	48	49

**Specifications:**  
Size: 2.5" x 0.5" (63.5mm x 12.5mm)  
Type: Vertical, self adhesive.  
Scale: °F and °C

### 13 LEVEL

°C	97	99	100	102	104	106	108	109	111	113	115	116	118
°F	212	210	212	216	218	221	226	228	230	235	239	243	248

### HORIZONTAL ROOM THERMOMETER

°F	62	66	70	72	74	76	78	80	82	84
°C	17	19	21	22	23	24	25	26	28	29

**Specifications:**  
Size: 3.5" x 0.5" (89mm x 12.5mm)  
Type: Horizontal, self adhesive.  
Scale: °F and °C

°C	17	19	21	22	23	24	25	26	27	28	29
°F	63	66	70	72	74	76	77	78	81	82	84

### HORIZONTAL ROOM THERMOMETER

### 7 LEVEL THERMOMETER

1	°F	-22	-13	-4	5	14	23	32
	°C	-30	-25	-20	-15	-10	-5	0
2	°F	32	41	50	59	68	77	86
	°C	0	5	10	15	20	25	30
3	°F	86	95	104	113	121	131	140
	°C	30	35	40	45	50	55	60
4	°F	140	149	158	167	176	185	194
	°C	60	65	70	75	80	85	90
5	°F	194	203	212	221	230	239	248
	°C	90	95	100	105	110	115	120

**Specifications:**  
Size: 0.5" x 1.77" (12.5mm x 45mm)  
Type: Horizontal, self adhesive.  
Scale: °F and °C

°C	0	5	10	15	20	25	30
°F	32	41	50	59	68	77	86

### 7 LEVEL (Horizontal)

### 7 LEVEL THERMOMETER

°F	50	55	60	65	70	75	80
°C	9	12	15	18	21	24	27

**Specifications:**  
Size: 2.75" x 0.394" (70mm x 10mm)  
Type: Vertical, self adhesive.  
Scale: °F or °C

80	27
75	24
70	21

7 LEVEL (Vertical)

### 13 LEVEL THERMOMETER

1	°F	32	34	36	37	39	41	43	45	46	48	50	52	54
	°C	0	1	2	3	4	5	6	7	8	9	10	11	12
2	°F	54	55	57	59	61	63	64	66	68	70	72	73	75
	°C	12	13	14	15	16	17	18	19	20	21	22	23	24
3	°F	75	77	79	81	82	84	86	88	90	91	93	95	97
	°C	24	25	26	27	28	29	30	31	32	33	34	35	36
4	°F	97	99	100	102	104	106	108	109	111	113	115	116	118
	°C	36	37	38	39	40	41	42	43	44	45	46	47	48
5	°F	118	120	122	124	126	127	129	131	133	135	136	138	140
	°C	48	49	50	51	52	53	54	55	56	57	58	59	60

**Specifications:**  
Size: 5.2" x 0.59" (132mm x 15mm)  
Type: Horizontal, self adhesive.  
Scale: °F and °C

## Color Change Thermometry

# THERMACOLOR LABELS

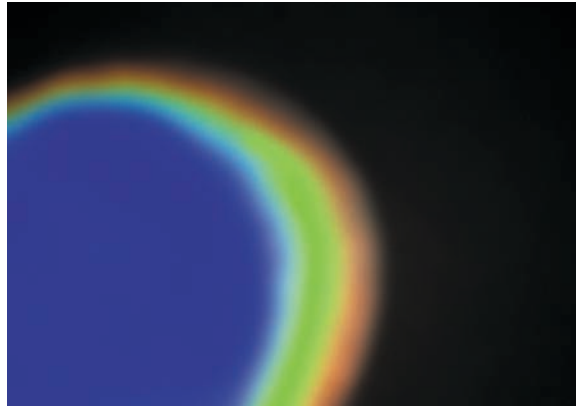
### Continuous temperature monitoring

LCR the International leader in Color Changing Temperature Indicating Technology and Graphics specializes in the micro-encapsulation of liquid crystal compounds.

Liquid crystals are chemical compounds and mixtures that exhibit the mechanical properties of liquids and the optical characteristics of solids. Liquid Crystals that change color with changes in temperature are known as thermochromic liquid crystals (TLC's). Scientifically, they are identified as Cholesteric Liquid Crystals and Micro-encapsulation is the process that primarily protects, stabilizes and makes the liquid crystal easier to use.

Thermacolor Products utilize this exciting technology (TLC's) for the measurement of temperature in a wide array of applications.

- ◆ Refrigerator / Freezer Thermometers
- ◆ Room Thermometers
- ◆ Baby Bath Thermometers
- ◆ High Temperature Indicators
- ◆ Custom and Promotional Items



#### THERMOCHROMIC SHEETS AND FILMS

Range:	Red Start		Green Start		Blue Start		Blue to Black		Bandwidth	
	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
R20C5W	20	68	21	70	25	77	41	106	5	9
R25C5W	25	77	26	79	30	86	44	111	5	9
R29C4W	29	84	30	86	33	91	50	122	4	7
R30C5W	30	86	31	88	35	95	46	115	5	9
R35C1W	35	95	35.2	95.5	36	97	49	120	1	2
R35C5W	35	95	36	97	40	104	49	120	5	9
R40C5W	40	104	41	106	45	113	52	126	5	9

#### Specifications:

Size: 12" x 12" (304.8mm x 304.8mm)

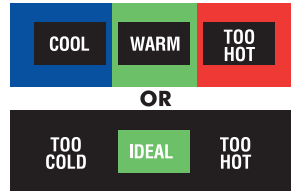


#### HOT WARNING INDICATOR

Range: The word **HOT** appears in black at 70°C / 157°F

#### Specifications:

Size: 1.5" x 0.63" (38mm x 16mm)



#### 3 LEVEL BATH THERMOMETER

Too Cold: 25°-35°C / 77°-96°F

Ideal: 36°-38°C / 95°-100°F

Too Hot: 39°-49°C / 102°-120°F

#### Specifications:

Size: 1.48" x 0.43" (37.5mm x 11mm)



#### HAND HOT INDICATOR

A pictorial warning. The word **HOT** lights up for:

1	YELLOW	°F	122
		°C	50
2	RED	°F	157
		°C	70

#### Specifications:

Type: Circular, self adhesive  
Size: 1.46" Dia. (37mm Dia.)



#### TEMPSAFE INDICATOR

Range: The word **HOT** appears in red at 50°C / 122°F

#### Specifications:

Type: Circular, self adhesive  
Size: 1.46" Dia. (37mm Dia.)